

### Patent Claims

1. Method for the continual and, in particular, the fast detection of changes of the concentration of radon gas dissolved in water, with the use of water-tight and gas-permeable membranes,  
w h e r e i n,  
without the realisation of a cycle, constantly new, radon-free gas is pumped through a gas zone surrounded by water and separated by a water-tight, gas-permeable membrane, into a radon measuring equipment unit where it is continually measured.
2. Method according to Claim 1,  
w h e r e i n  
the radon-free gas is air.
3. Method according to Claim 1,  
w h e r e i n  
the gas, after departing from the radon measuring equipment unit, is discharged to the ambient surroundings.
4. Method according to Claim 1,  
w h e r e i n  
the water and the measuring gas are conducted in the counter-current along the membrane.
5. Method according to Claim 1,  
w h e r e i n  
the water and the measuring gas are conducted parallel to the membrane.

6. Method according to one of the above-mentioned Claims 1 to 5,  
w h e r e i n  
the gas zone is a diffusion hose.
7. Device for the continual and, in particular, fast detection of the changes of  
concentration of radon gas dissolved in water,  
w h e r e i n  
a gas zone has an inlet and an outlet and is arranged in flowing water, where the inlet  
of the gas zone is connected to a gas source and the outlet of the gas zone is  
connected with the inlet of a radon measuring equipment unit.
8. Device according to Claim 7,  
w h e r e i n  
the outlet of the radon measuring equipment unit opens out in the ambient air.
9. Device according to Claim 7,  
w h e r e i n  
the gas zone is a diffusion hose.